

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1.-14. (Canceled).

15. (Currently Amended) A cylinder control system, comprising:

a fluid source;

a fluid cylinder operatively connected to the fluid source, wherein the fluid cylinder, in response to a constant fluid input from the fluid source, operates at a first speed during a first portion of an extension stroke and operates at a second speed during a second portion of the extension stroke;

a sensor configured to sense the fluid cylinder operating at a first speed during a first portion of an extension stroke and operating at a second speed during a second portion of the extension stroke; and

a speed control operatively connected to the sensor and the cylinder and automatically changing the fluid input to the cylinder to operate the cylinder at the first speed during the second portion of the extension stroke; ~~and~~

~~wherein the speed control automatically changes the fluid input to the cylinder based on the position of the cylinder during the extension stroke.~~

16-18. (Canceled).

19. (Previously Presented) The cylinder control system of claim 15, including a valve in fluid communication with the fluid cylinder for adjusting the fluid input to the fluid cylinder.

20. (Previously Presented) The cylinder control system of claim 15, including at least one sensor configured to generate a sensor signal when the fluid cylinder transitions from the first portion of the extension stroke to the second portion of the extension stroke.

21. (Previously Presented) The cylinder control system of claim 20, wherein the speed control is configured to automatically change the fluid input to the fluid cylinder in response to the sensor signal.

22. (Previously Presented) The cylinder control system of claim 15, including at least one sensor configured to detect when fluid pressure of fluid in the fluid cylinder exceeds a predetermined threshold.

23. (Previously Presented) The cylinder control system of claim 22, wherein the speed control is configured to retract the fluid cylinder when the sensor senses that the fluid pressure exceeds the predetermined threshold.

24. (Previously Presented) The cylinder control system of claim 22, wherein the speed control is configured to stop movement of the fluid cylinder at its current

position when the sensor senses that the fluid pressure exceeds the predetermined threshold.

25. (Previously Presented) The cylinder system of claim 15, wherein the fluid source includes a pump configured to supply fluid to the fluid cylinder during the first and second portions of the extension stroke.

26. (Previously Presented) The cylinder control system of claim 25, wherein the fluid source includes a valve disposed between the pump and the fluid cylinder, the valve having a moveable spool for adjusting the flow rate of the fluid to the fluid cylinder.

27. (Previously Presented) The cylinder control system of claim 25, wherein the speed control includes a variable control device for variably controlling the fluid input to the cylinder.

28. (Previously Presented) The cylinder control system of claim 27, wherein the variable control device includes a variable resistor.

29. (Currently Amended) A control system for a material ejector system including an ejector for ejecting material from a receptacle of a vehicle, comprising:
a power source;
a motor operatively associated with the power source, the motor being configured to drive the ejector to eject the material from the receptacle, wherein the

motor is configured to ~~receive a first input to~~ drive the ejector at a first speed during a first portion of an ejection stroke and ~~receive a second input, different from the first input, to~~ drive the ejector at a second speed during a second portion of the ejection stroke in response to a constant input of power from the power source;

a sensor configured to sense the motor driving the ejector from the first portion of the ejection stroke to the second portion of the ejection stroke; and

a speed control operatively connected to the sensor and the motor and configured to regulate the amount of power from the power source to the motor to drive the ejector at the same ejection speed during both the first portion and the second portion of the ejection stroke to eject the material from the receptacle of the vehicle at a constant rate.

30. (Previously Presented) The control system of claim 29, wherein the motor is a fluid cylinder and the power source is a fluid source.

31. (Previously Presented) The control system of claim 30, including a valve in fluid communication with the fluid cylinder for adjusting a fluid input to the fluid cylinder.

32. (Previously Presented) The control system of claim 30, including at least one sensor configured to generate a sensor signal when the motor transitions from the first portion of the ejection stroke to the second portion of the ejection stroke.

33. (Previously Presented) The control system of claim 32, wherein the speed control is configured to automatically change a fluid input to the fluid cylinder in response to the sensor signal.